

# Mineral Industry Surveys

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## COPPER IN NOVEMBER 2005

Average daily copper mine production in November was essentially unchanged from that of October, according to data compiled by the U.S. Geological Survey. Production in November, however, remained 20% below that for November 2004 owing predominantly to strike activity at Asarco Incorporated's mines in Arizona (see Copper in October 2005) and lower production from Kennecott Utah Copper Co.'s Bingham Canyon Mine. Kennecott altered its mine plan to process ore containing higher molybdenum values at the expense of copper in order to take advantage of high molybdenum prices (Rio Tinto plc, 2006, p. 4). Average daily refined copper production in November, however, rose by about 5% to the highest level of the year.

Average daily consumption of refined copper in November was 3% below that for October and 6% below that for November 2004. Despite this, the U.S. market for semifabricates showed some renewed strength. According to the American Bureau of Metal Statistics, Inc. (ABMS), U.S. shipments of copper and copper alloy mill products, though down in November (a seasonally weak month) by 6.8% from those in October, were up by 11.5% compared with shipments in November 2004. Year-on-year shipments through November 2005, however, were down by 2.5%. Copper tube shipments for the first 9 months of the year were up by 0.5% from those for

the same period in 2004; sheet and strip shipments were down by 5.9%; and rod and bar shipments were down by 6.8%. According to ABMS wire-rod shipment data, U.S. apparent consumption of wire rod declined by 8.5% from that in October, but remained 7.5% above those for November 2004. Year-to-date apparent consumption of rod in 2005 was essentially unchanged from that of the previous year, yet shipments from U.S. mills were down by almost 6%. The disparity was attributed to a 131% increase in net imports of wire rod to 206,000 metric tons (t) in 2005 from 89,000 t in 2004 (American Bureau of Metal Statistics, Inc., 2006 a, b).

### References Cited

- American Bureau of Metal Statistics, Inc., 2006a, Copper and copper alloy mill product markets—ABMS report 3: Chatham, NJ, American Bureau of Metal Statistics, Inc., January 26, 6 p.
- American Bureau of Metal Statistics, Inc., 2006b, US copper wirerod market—ABMS report 4: Chatham, NJ, American Bureau of Metal Statistics, Inc., January 23, 4 p.
- Rio Tinto plc, 2006, Fourth quarter 2005 operations review: London, United Kingdom, Rio Tinto plc press release, January 18, 20 p.

TABLE 1  
SALIENT STATISTICS OF THE COPPER INDUSTRY IN THE UNITED STATES<sup>1</sup>

(Metric tons, unless otherwise specified)

	Source table <sup>2</sup>	2005			
		2004 <sup>p</sup>	October	November	January - November
Production:					
Primary:					
Mine, recoverable	(2)	1,160,000	88,600 <sup>r</sup>	86,600	1,040,000
Refinery:					
Electrolytic:					
Domestic and foreign	(4)	671,000	55,600 <sup>r</sup>	58,700	591,000
Electrowon	(4)	584,000	45,200	46,200	507,000
Total	(4)	1,260,000	101,000 <sup>r</sup>	102,000	1,100,000
Secondary recoverable copper:					
Refineries	(5)	50,800	3,780	3,760	43,200
Ingot makers <sup>3</sup>	(5)	91,800	7,650	7,650	84,200
Brass and wire-rod mills	(5)	705,000	60,300	58,400	640,000
Foundries, etc. <sup>3</sup>	(5)	65,200	5,430	5,430	59,700
Smelter, total	(3)	542,000	51,800	48,800	482,000
Consumption:					
Apparent	(8)	2,440,000	215,000	NA	NA
Refined (reported)	(7)	2,410,000	196,000 <sup>r</sup>	183,000	2,100,000
Purchased copper-base scrap	(9)	1,150,000	97,500	94,900	1,050,000
Stocks at end of period:					
Total refined	(11)	136,000	65,000 <sup>r</sup>	59,300	XX
Blister, etc.	(11)	51,400	47,300	52,400	XX
Prices:					
U.S. producer cathode (cents per pound) <sup>4</sup>	(12)	133.938	195.568	206.396	169.037
Imports: <sup>5</sup>					
Ores and concentrates <sup>6</sup>	(14)	22,900	--	NA	NA
Refined	(14)	807,000	99,400	NA	NA
Exports: <sup>5</sup>					
Ores and concentrates <sup>6</sup>	(15)	24,200	20,100	NA	NA
Refined	(15)	118,000	3,250	NA	NA

<sup>p</sup>Preliminary. <sup>r</sup>Revised. NA Not available. XX Not applicable. -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits, except prices; may not add to totals shown.

<sup>2</sup>Numbers in parentheses refer to the significant tables where these data are located.

<sup>3</sup>Monthly data and 2004 cumulative data estimated based on 2003 monthly average.

<sup>4</sup>Source: Platts Metals Week.

<sup>5</sup>Source: U.S. Census Bureau.

<sup>6</sup>Copper content.

TABLE 2  
MINE PRODUCTION OF RECOVERABLE COPPER IN THE UNITED STATES<sup>1</sup>

(Metric tons)

Period	Recoverable copper			Contained copper		
	Arizona	Others <sup>2</sup>	Total	Electrowon	Concentrates <sup>3</sup>	Total
2004: <sup>P</sup>						
January - November	659,000	389,000	1,050,000	534,000	529,000	1,060,000
November	61,400	46,500	108,000	47,600	62,100	110,000
December	63,300	45,200	109,000	50,000	60,300	110,000
Year	723,000	435,000	1,160,000	584,000	590,000	1,170,000
2005:						
January	58,500	39,800	98,300	42,400	57,600	99,900
February	54,200	37,500	91,700	40,800	52,400	93,100
March	62,100	43,200	105,000	47,400	59,600	107,000
April	62,000	39,000	101,000	47,700	55,000	103,000
May	65,300	38,100	103,000	48,800	56,400	105,000
June	61,700	36,000	97,700	48,100	51,100	99,200
July	54,400	35,800 <sup>r</sup>	90,200 <sup>r</sup>	46,600	44,700 <sup>r</sup>	91,400 <sup>r</sup>
August	55,200	33,800 <sup>r</sup>	89,000 <sup>r</sup>	47,300	42,900 <sup>r</sup>	90,200 <sup>r</sup>
September	53,500	39,200 <sup>r</sup>	92,700 <sup>r</sup>	46,300 <sup>r</sup>	47,700 <sup>r</sup>	94,000 <sup>r</sup>
October	53,400 <sup>r</sup>	35,200 <sup>r</sup>	88,600 <sup>r</sup>	45,200	44,500 <sup>r</sup>	89,800 <sup>r</sup>
November	53,300	33,200	86,600	46,200	41,500	87,700
January - November	634,000	411,000	1,040,000	507,000	553,000	1,060,000

<sup>P</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Includes production from, Idaho, Missouri, Montana, Nevada, New Mexico, and Utah.

<sup>3</sup>Includes copper content of precipitates and other metal concentrates.

TABLE 3  
COPPER PRODUCED AT SMELTERS IN  
THE UNITED STATES, BY SOURCE<sup>1,2</sup>

(Metric tons, copper content)

Period	Anode production
2004: <sup>P</sup>	
January - November	492,000
November	42,300
December	49,900
January - December	542,000
2005:	
January	42,700
February	36,100
March	37,900
April	49,700
May	36,900
June	44,100
July	36,500
August	49,300
September	48,500
October	51,800
November	48,800
January - November	482,000

<sup>P</sup>Preliminary.

<sup>1</sup>Includes blister, anode and copper from primary or secondary sources.

<sup>2</sup>Data are rounded to no more than three significant digits; may not add to total shown.

TABLE 4  
PRODUCTION OF REFINED COPPER, BY SOURCE AND METHOD OF RECOVERY<sup>1</sup>

(Metric tons)

Period	Primary materials			Scrap	Total refined
	Electrolytically refined <sup>2</sup>	Electrowon	Total		
2004: <sup>P</sup>					
January - November	602,000	534,000	1,140,000	46,800	1,180,000
November	56,700	47,600	104,000	4,190	109,000
December	69,300	50,000	119,000	4,010	123,000
Year	671,000	584,000	1,260,000	50,800	1,310,000
2005:					
January	54,900	42,400	97,200	4,380	102,000
February	57,400	40,800	98,100	4,380	102,000
March	52,600	47,400	100,000	4,210	104,000
April	53,100	47,700	101,000	4,160	105,000
May	56,100	48,800	105,000	3,750	109,000
June	49,100	48,100	97,200	3,620	101,000
July	49,500	46,600	96,200	3,940	100,000
August	51,200	47,300	98,500	3,590	102,000
September	52,900 <sup>r</sup>	46,300 <sup>r</sup>	99,200 <sup>r</sup>	3,630	103,000 <sup>r</sup>
October	55,600 <sup>r</sup>	45,200	101,000 <sup>r</sup>	3,780	105,000 <sup>r</sup>
November	58,700	46,200	102,000	3,760	106,000
January - November	591,000	507,000	1,100,000	43,200	1,140,000

<sup>P</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>From domestic and foreign source materials.

TABLE 5  
COPPER RECOVERABLE IN UNALLOYED AND ALLOYED FORM FROM PURCHASED COPPER-BASE SCRAP<sup>1</sup>

(Metric tons, copper content)

Period	Refineries <sup>2</sup>		Ingot makers <sup>3</sup>		Brass and wire-rod mills		Foundries, etc. <sup>3</sup>		Total <sup>4</sup>
	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2004: <sup>P</sup>									
January - November	14,700	32,100	15,300 <sup>r</sup>	68,900 <sup>r</sup>	621,000 <sup>r</sup>	33,000	22,700 <sup>r</sup>	37,100 <sup>r</sup>	844,000 <sup>r</sup>
November	1,340	2,850	1,390	6,260	50,500	2,670	2,060	3,370	70,500
December	1,340	2,680	1,390	6,260	48,000	3,300	2,060	3,370	68,400
Year	16,000	34,700	16,700	75,100	669,000	36,300	24,700	40,400	913,000
2005:									
January	1,340	3,050	1,390	6,260	57,700	2,780	2,060	3,370	77,900
February	1,340	3,040	1,390	6,260	54,900	3,110	2,060	3,370	75,500
March	1,340	2,870	1,390	6,260	56,300	2,980	2,060	3,370	76,500
April	1,340	2,820	1,390	6,260	54,200	3,220	2,060	3,370	74,700
May	1,340	2,410	1,390	6,260	54,100	2,550	2,060	3,370	73,500
June	1,340	2,280	1,390	6,260	54,500	2,380	2,060	3,370	73,600
July	1,340	2,610	1,390	6,260	51,000	2,840	2,060	3,370	70,900
August	1,340	2,260	1,390	6,260	56,400	2,840	2,060	3,370	75,900
September	1,340	2,300	1,390	6,260	56,800	2,810	2,060	3,370	76,400
October	1,340	2,450	1,390	6,260	58,900	1,410	2,060	3,370	77,200
November	1,340	2,420	1,390	6,260	57,000	1,410	2,060	3,370	75,200
January - November	14,700	28,500	15,300	68,900	612,000	28,300	22,700	37,100	827,000

<sup>P</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Electrolytically refined and fire-refined scrap based on source of material at smelter level.

<sup>3</sup>Monthly data and 2004 cumulative data estimated based on 2003 annual data.

<sup>4</sup>Does not include an estimate, based on reported 2003 data of 3,040 tons per month from new scrap and 1,830 tons per month of copper recovered from scrap other than copper-base.

TABLE 6  
PRODUCTION, SHIPMENTS, AND STOCKS OF BRASS AND WIRE-ROD SEMIFABRICATES<sup>1</sup>

(Metric tons, gross weight)

Period	Production		Shipments		Stocks, end of period	
	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills	Brass mills	Wire-rod mills
2004: <sup>p</sup>						
January - November	1,290,000	1,670,000	1,290,000	1,660,000	XX	XX
November	107,000	148,000	108,000	144,000	52,900	26,600
December	100,000	134,000	97,600	130,000	55,300	31,200
Year	1,390,000	1,800,000	1,390,000	1,790,000	XX	XX
2005:						
January	113,000	141,000	114,000	137,000	55,100	35,100
February	109,000	135,000	110,000	134,000	53,300	35,100
March	117,000	135,000	117,000	149,000	53,600	20,600
April	109,000	143,000	112,000	141,000	50,200	22,000
May	111,000	145,000	110,000	143,000	51,400	23,500
June	115,000	145,000	116,000	145,000	50,300	23,100
July	109,000	148,000	113,000	140,000	46,300	31,000
August	123,000	147,000	123,000	152,000	46,200	25,600
September	121,000	150,000	122,000	155,000 <sup>r</sup>	45,300	24,800 <sup>r</sup>
October	125,000	143,000 <sup>r</sup>	124,000	140,000 <sup>r</sup>	45,900	26,700 <sup>r</sup>
November	118,000	134,000	119,000	136,000	45,000	25,400
January - November	1,270,000	1,560,000	1,280,000	1,570,000	XX	XX

<sup>p</sup>Preliminary. <sup>r</sup>Revised. XX Not applicable.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

TABLE 7  
CONSUMPTION OF REFINED COPPER<sup>1</sup>

(Metric tons)

Period and item	Brass mills	Wire-rod mills	Other plants <sup>2</sup>	Total
2004: <sup>p</sup>				
January - November	534,000	1,650,000 <sup>r</sup>	56,700 <sup>r</sup>	2,240,000 <sup>r</sup>
November	44,700	145,000	5,160	195,000
December	39,200	129,000	5,160	173,000
Year	573,000	1,780,000	61,900	2,410,000
2005:				
January	44,900	145,000	5,160	195,000
February	42,500	129,000	5,160	177,000
March	46,100	134,000	5,160	185,000
April	41,500	143,000	5,160	190,000
May	43,000	132,000	5,160	180,000
June	46,200	141,000	5,160	192,000
July	42,100	146,000	5,160	193,000
August	45,900	151,000	5,160	202,000
September	45,300	154,000 <sup>r</sup>	5,160	204,000 <sup>r</sup>
October	46,500 <sup>r</sup>	144,000 <sup>r</sup>	5,160	196,000 <sup>r</sup>
November:				
Cathodes	29,400	135,000	954	165,000
Wire bars	--	--	(3)	(3)
Ingots and ingot bars	2,030	--	2,130	4,160
Cakes and slabs	3,100	--	(3)	(3)
Billets and other	8,580	--	2,070	10,600
Total	43,100	135,000	5,160	183,000
January - November	487,000	1,550,000	56,700	2,100,000

<sup>p</sup>Preliminary. <sup>r</sup>Revised. -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Consumption by ingot makers, chemical plants, foundries, and miscellaneous manufacturers is estimated based on 2003 annual data.

<sup>3</sup>Withheld to avoid disclosing company proprietary data; included with "Billets and others."

TABLE 8  
U.S. APPARENT CONSUMPTION OF COPPER<sup>1</sup>

(Metric tons)

Period	Refined copper production	Copper in old scrap <sup>2</sup>	Refined general imports <sup>3</sup>	Refined exports <sup>3</sup>	Stock change during period	Apparent consumption
2004: <sup>P</sup>						
January - October	925,000 <sup>r</sup>	156,000 <sup>r</sup>	578,000	107,000	(513,000) <sup>r</sup>	2,060,000 <sup>r</sup>
October	106,000	20,100 <sup>r</sup>	60,200	3,890	(12,400)	195,000
November	104,000	16,900	75,300	2,460	859 <sup>r</sup>	193,000
December	119,000	17,400	51,100	8,390	(743)	180,000
Year	1,150,000 <sup>r</sup>	191,000 <sup>r</sup>	704,000	118,000	(512,000) <sup>r</sup>	2,440,000 <sup>r</sup>
2005:						
January	97,200	17,200	77,900	4,460	6,350	182,000
February	98,100	17,600	66,500	3,230	(7,110)	186,000
March	100,000	17,300	72,000	2,830	(6,550)	193,000
April	101,000	17,500	63,300	1,900	(4,560)	184,000
May	105,000	16,400	101,000	7,240	(12,000)	227,000
June	97,200	16,100	64,100	4,270	(11,700)	185,000
July	96,200	16,900	75,500	3,010	(9,110)	195,000
August	98,500	16,500	79,400	2,650	(11,400) <sup>r</sup>	203,000
September	96,900	16,500	79,400	1,800	(2,600) <sup>r</sup>	194,000 <sup>r</sup>
October	91,500	15,300	99,100	3,250	(12,100) <sup>r</sup>	215,000 <sup>r</sup>
November	102,000	15,200	NA	NA	(5,700)	NA
January - October	982,000	167,000	778,000	34,600	(70,700)	1,960,000

<sup>P</sup>Preliminary. <sup>r</sup>Revised. NA Not available.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Includes reported monthly production of copper from old scrap of copper-base, an estimate for annual reporters, and a monthly average of copper from non-copper-base materials based on 2003 data.

<sup>3</sup>Source: U.S. Census Bureau.

TABLE 9  
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP<sup>1</sup>

(Metric tons, gross weight)

Period	Smelters and refineries		Ingot makers <sup>2</sup>		Brass and wire-rod mills <sup>3</sup>		Foundries, etc. <sup>2</sup>		Total scrap used
	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
2004: <sup>P</sup>									
January - November	14,800	32,200	20,400 <sup>r</sup>	100,000 <sup>r</sup>	782,000 <sup>r</sup>	34,300	39,600 <sup>r</sup>	40,700 <sup>r</sup>	1,060,000 <sup>r</sup>
November	1,350	2,890	1,850	9,110	63,300	2,780	3,600	3,700	88,500
December	1,350	2,700	1,850	9,110	60,300	3,440	3,600	3,700	86,000
Year	16,200	34,900	22,200	109,000	843,000	37,700	43,200	44,400	1,150,000
2005:									
January	1,350	3,080	1,850	9,110	72,400	2,910	3,600	3,700	98,000
February	1,350	3,080	1,850	9,110	69,800	3,280	3,600	3,700	95,800
March	1,350	2,900	1,850	9,110	71,800	3,170	3,600	3,700	97,500
April	1,350	2,850	1,850	9,110	68,400	3,370	3,600	3,700	94,200
May	1,350	2,440	1,850	9,110	68,600	2,710	3,600	3,700	93,400
June	1,350	2,310	1,850	9,110	70,200	2,550	3,600	3,700	94,700
July	1,350	2,640	1,850	9,110	64,300	2,980	3,600	3,700	89,500
August	1,350	2,280	1,850	9,110	71,400	2,980	3,600	3,700	96,300
September	1,350	2,420	1,850	9,110	71,700	2,990	3,600	3,700	96,800
October	1,350	2,380	1,850	9,110	74,000	1,550	3,600	3,700	97,500
November	1,350	2,580	1,850	9,110	71,200	1,530	3,600	3,700	94,900
January - November	14,800	29,000	20,400	100,000	774,000	30,000	39,600	40,700	1,050,000

<sup>P</sup>Preliminary.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Monthly data and 2004 cumulative data estimated from 2003 annual data.

<sup>3</sup>Consumption at brass and wire-rod mills assumed equal to receipts.

TABLE 10  
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP<sup>1,2</sup>

(Metric tons, gross weight)

Scrap type and processor	2004 <sup>p</sup>		2005			
	January - November	Year	September	October	November	January - November
No. 1 wire and heavy:						
Smelters and refiners	63,600 <sup>r</sup>	68,500	4,880	4,880	5,080	60,500
Brass and wire-rod mills	365,000	394,000	32,700	33,200	32,700	350,000
No. 2 mixed heavy and light:						
Smelters and refiners	24,600 <sup>r</sup>	26,800	1,480	1,870	1,870	21,400
Brass and wire-rod mills	5,810 <sup>r</sup>	6,250	510	331	510	5,080
Total unalloyed scrap:						
Smelters and refiners	88,200 <sup>r</sup>	95,300	6,360	6,750	6,950	81,900
Brass and wire-rod mills	370,000 <sup>r</sup>	401,000	33,200	33,600	33,200	355,000
Red brass: <sup>3</sup>						
All plants	36,200 <sup>r</sup>	39,300	3,570	3,870	3,570	36,400
Leaded yellow brass:						
All plants	298,000 <sup>r</sup>	322,000	16,900	16,300	15,200	175,000
Yellow and low brass:						
All plants	37,900 <sup>r</sup>	41,300	13,900	15,300	14,400	161,000
Cartridge cases and brass:						
All plants	80,700 <sup>r</sup>	86,600	8,250	7,970	7,800	87,800
Auto radiators:						
Smelters and refiners	24,700 <sup>r</sup>	26,700	2,080	2,080	2,080	24,100
Bronzes:						
Smelters and refiners	7,690 <sup>r</sup>	8,390	699	699	699	7,690
Brass mills	5,870	6,350	430	529	545	5,230
Nickel-copper alloys:						
All plants	19,000	20,000	1,680	1,190	1,240	16,900
Low grade and residues:						
Smelters and refiners	11,500 <sup>r</sup>	12,600	1,050	1,050	1,050	11,600
Other alloy scrap: <sup>4</sup>						
Smelters and refiners	1,010 <sup>r</sup>	1,100	92	92	92	1,010
Brass mills	4,520 <sup>r</sup>	4,860	332	332	332	3,990
Total alloyed scrap:						
Smelters and refiners	81,600 <sup>r</sup>	89,100	7,420	7,420	7,420	81,600
Brass mills	446,000	480,000	41,500	42,000	39,600	449,000
Total scrap:						
Smelters and refiners	169,000 <sup>r</sup>	184,000	13,800	14,200	14,400	164,000
Brass and wire-rod mills	817,000	880,000	74,700	75,600	72,800	804,000

<sup>p</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Does not include: consumption by foundries, chemical plants, and miscellaneous manufacturers, estimated to total about 7,300 tons of scrap per month based on 2003 annual data; monthly data include estimates of about 11,000 tons of scrap per month consumed by ingot makers.

<sup>2</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>3</sup>Includes composition turnings, silicon bronze, zinc bronze, railroad car boxes, cocks and faucets, gilding metal, and commercial bronze.

<sup>4</sup>Includes refinery brass, beryllium copper, phosphor copper, and aluminum bronze.

TABLE 11  
COPPER STOCKS AT END OF PERIOD<sup>1</sup>

(Metric tons)

Period	Crude copper <sup>2</sup>	Refined copper						Total refined
		Refineries <sup>3</sup>	Wire-rod mills <sup>3</sup>	Brass mills <sup>3</sup>	Other <sup>4</sup>	Comex <sup>5</sup>	LME <sup>6</sup>	
2004: <sup>p</sup>								
November	70,600	13,100	24,300	18,200	4,870	38,500	37,500	136,000
December	51,400	10,400	20,300	21,500	4,870	43,700	35,000	136,000
2005:								
January	66,100	12,300	24,300	24,100	4,870	41,600	34,900	142,000
February	46,700	10,600	20,800	22,300	4,870	42,500	33,900	135,000
March	42,300	6,820	25,000	20,900	4,870	39,300	31,500	128,000
April	42,500	8,200	31,100	20,300	4,870	27,300	32,100	124,000
May	38,200	9,680	29,600	19,300	4,870	20,200	28,200	112,000
June	45,200	5,810	32,600	20,600	4,870	13,900	22,400	100,000
July	33,300	8,330	29,800	19,900	4,870	9,970	18,200	91,000
August	43,800	5,550	28,200	20,700	4,870	8,420 <sup>r</sup>	11,900	79,600 <sup>r</sup>
September	51,700	6,060	28,300	20,800	4,870	6,910 <sup>r</sup>	10,000	77,000 <sup>r</sup>
October	47,300	7,030 <sup>r</sup>	17,200 <sup>r</sup>	21,700 <sup>r</sup>	4,870	3,350	10,800	65,000 <sup>r</sup>
November	52,400	5,690	18,400	23,100	4,870	3,340	3,830	59,300

<sup>p</sup>Preliminary. <sup>r</sup>Revised.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Copper content of blister and other materials in transit and in process of refining.

<sup>3</sup>Stocks of refined copper as reported; no estimates are made for nonrespondents.

<sup>4</sup>Monthly estimates based on reported and 2003 annual data, comprising stocks at ingot makers, chemical plants, foundries, and miscellaneous manufacturers.

<sup>5</sup>Commodity Exchange Inc., New York.

<sup>6</sup>London Metal Exchange Ltd., U.S. warehouses.

TABLE 12  
AVERAGE PRICE OF COPPER IN THE UNITED STATES  
AND ON THE LONDON METAL EXCHANGE

(Cents per pound)

Period	U.S. producers delivered price cathode <sup>1</sup>	Comex first position <sup>2</sup>	LME cash price Grade A
2004:			
November	146.599	141.333	141.620
December	150.897	145.631	142.633
Year	133.938	128.972	129.958
2005:			
January	150.261	144.995	143.751
February	151.905	146.639	147.544
March	153.946	148.680	153.268
April	154.606	149.340	153.938
May	153.256	147.990	147.331
June	167.452	162.186	159.807
July	168.484	163.218	163.909
August	176.905	171.639	172.230
September	180.623	175.350	174.959
October	195.568	190.302	184.119
November	206.396	201.130	193.622
January - November	169.037	163.770	163.134

<sup>1</sup>Listed as "U.S. producer cathode."

<sup>2</sup>Listed as "Comex high grade first position."

Sources: Platts Metals Week and American Metal Market.



TABLE 13  
NEW YORK AVERAGE BUYING PRICES FOR COPPER SCRAP

(Cents per pound)

Month	Brass mills No. 1 scrap	Refiners No. 2 scrap	Dealers (New York)	
			No. 2 Scrap	Red brass turnings and borings
2004:				
November	135.40	118.15	89.00	55.00
December	139.14	121.00	89.00	55.00
Year	126.41	107.62	86.86	55.14
2005:				
January	139.40	119.50	89.00	55.00
February	139.89	121.67	89.00	55.00
March	142.52	123.43	89.00	55.00
April	143.52	126.00	89.00	55.00
May	138.24	124.76	89.00	55.00
June	137.23	124.82	93.09	59.09
July	153.40	141.60	99.00	65.00
August	142.26	126.52	99.00	65.00
September	142.86	128.38	99.00	65.00
October	176.90	162.95	99.00	65.00
November	183.70	168.10	99.00	65.00
January - November	149.08	133.43	93.92	59.92

Source: American Metal Market.

TABLE 14  
U.S. IMPORTS FOR CONSUMPTION OF COPPER (UNMANUFACTURED), BY CLASS<sup>1</sup>

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash and precipitates			Blister and anodes			Refined		
	2005			2005			2005			2005		
	January -			January -			January -			January -		
	2004	October	October	2004	October	October	2004	October	October	2004	October	October
Brazil	--	--	--	--	--	--	--	--	10	15,600	7,030	25,000
Canada	516	--	2	99	1	109	75,500	7,680	70,800	278,000	19,100	258,000
Chile	--	--	--	--	--	--	48,900	4,870	33,900	311,000	38,800	308,000
Germany	--	--	--	--	--	--	--	--	12	21,000	1,920	21,500
Mexico	22,400	--	221	206	--	37	8,630	--	3,870	19,300	1,970	28,900
Namibia	--	--	--	--	--	--	7,710	--	--	--	--	--
Peru	--	--	--	--	--	--	10,200	--	--	152,000	11,900	127,000
Taiwan	--	--	--	1,330	101	991	--	--	--	(2)	--	--
Other	--	--	--	46	--	202	34	--	16	10,500	18,700	28,900
Total	22,900	--	223	1,680	102	1,340	151,000	12,600	109,000	807,000	99,400	797,000

-- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Less than 1/2 unit.

Source: U.S. Census Bureau.

TABLE 15  
U.S. EXPORTS OF COPPER (UNMANUFACTURED), BY CLASS<sup>1</sup>

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash and precipitates			Blister and anodes			Refined		
	2005			2005			2005			2005		
	January -			January -			January -			January -		
	2004	October	October	2004	October	October	2004	October	October	2004	October	October
Belgium	6	--	41	45	--	37	1,320	--	675	998	--	49
Canada	18,200	1,520	14,400	18,800	4,250	23,200	22,400	2,950	17,800	2,230	119	1,780
China	2,340	6,270	65,200	52	848	7,630	307	57	323	23,900	1,090	16,800
Costa Rica	--	--	3	--	--	(2)	--	--	--	1,300	--	1
Germany	32	--	--	23	75	93	1,880	46	723	70	--	158
Hong Kong	229	--	2	12	--	1	3,410	324	2,760	11	4	4
India	56	--	149	21	--	1	164	--	47	2,940	220	5,590
Italy	--	--	--	--	(2)	18	1,570	154	3,400	21,100	5	18
Japan	2,510	6,890	28,700	122	--	68	705	41	1,730	66	--	5
Korea, Republic of	23	--	1	8	--	2	8,910	40	373	5,060	23	126
Mexico	115	1	6,380	2,650	--	681	221	4	2,650	20,500	1,630	8,670
Saudi Arabia	--	--	--	--	--	--	--	--	11	7,840	--	11
Singapore	--	--	19	19	--	20	654	20	371	39	--	13
Spain	308	57	1,730	--	--	--	347	--	162	--	--	--
Sweden	--	--	--	--	--	--	399	731	2,000	3	--	--
Taiwan	109	--	15	5	--	10	1,320	200	1,260	29,000	59	114
Other	311	5,370	5,590	333	57	244	2,830	88	934	3,190	100	1,100
Total	24,200	20,100	122,000	22,100	5,230	32,000	46,400	4,650	35,200	118,000	3,250	34,400

-- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Less than 1/2 unit.

Source: U.S. Census Bureau.

TABLE 16  
U.S. COPPER SCRAP IMPORTS<sup>1</sup>

(Metric tons, gross weight)

Country or territory	Unalloyed			Alloyed		
	2005			2005		
	January-			January-		
	2004	October	October	2004	October	October
Canada	6,370	750	5,670	44,500	3,860	38,100
China	1	--	--	448	12	75
Costa Rica	1,400	98	1,670	516	61	378
Germany	48	--	84	1,130	36	57
Guatemala	271	10	53	1,050	113	1,110
Honduras	1,430	285	1,470	625	61	467
Jamaica	429	11	201	182	6	101
Japan	65	--	39	145	--	133
Mexico	10,300	1,690	11,400	22,100	2,340	20,300
Taiwan	--	--	2	1,480	36	267
United Kingdom	554	27	225	1,030	67	804
Other	2,320 <sup>r</sup>	165	1,720	4,820 <sup>r</sup>	393	5,460
Total	23,100	3,030	22,500	78,100	6,990	67,300

<sup>r</sup>Revised. -- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 17  
U.S. COPPER SCRAP EXPORTS<sup>1</sup>

(Metric tons, gross weight)

Country or territory	Unalloyed							Alloyed				
	2005							2005				
	2004	No. 1		No. 2		Other		2004	Segregated		Unsegregated	
		January-		January-		January-			January-		January-	
		October	October	October	October	October	October		October	October	October	October
Belgium	3,850	--	--	--	1	19	464	8,200	50	1,080	525	4,420
Canada	33,300	--	--	--	--	1,700	22,400	15,000	499	3,570	872	7,760
China	222,000	9,070	75,800	11,400	99,300	4,630	49,200	239,000	8,390	83,500	7,590	62,100
Germany	8,830	152	770	--	320	1,520	7,970	13,800	307	2,810	1,050	6,190
Hong Kong	3,910	656	4,670	433	2,190	147	714	11,000	278	3,700	670	6,910
India	4,160	64	430	--	240	84	3,350	45,100	845	12,400	--	900
Japan	7,930	19	116	--	626	427	5,220	9,660	264	4,450	152	1,860
Korea, Republic of	22,400	352	5,250	1,070	9,200	771	8,990	16,300	471	7,760	17	1,510
Mexico	4,560	19	478	58	277	--	214	1,570	155	653	100	531
Spain	37	--	2	--	140	--	2	2,740	40	289	988	3,970
Taiwan	11,300	244	1,370	320	5,700	130	2,840	13,700	588	7,610	--	859
Thailand	--	--	--	--	19	136	817	1,250	55	449	--	26
United Kingdom	34	--	--	--	--	--	234	4,560	24	252	99	2,650
Other	2,990	141	378	--	138	1	464	7,210	1,130	6,080	637	2,440
Total	325,000	10,700	89,300	13,300	118,000	9,570	103,000	389,000	13,100	135,000	12,700	102,000

-- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.